

What is claimed is:

[Claim 1] A mobile antenna comprising a center-fed, broadband, dipole radiator, and a coupler assembly for mounting the dipole radiator to a mount, wherein a power matching circuit is connected between the dipole radiator and the coupler assembly to maintain an effective balance of current distribution and impedance in conductive elements of the antenna.

[Claim 2] The mobile antenna of claim 1 wherein the power matching circuit comprises a capacitor.

[Claim 3] The mobile antenna of claim 1 wherein the power matching circuit comprises a resistor and a capacitor connected in series.

[Claim 4] The mobile antenna of claim 1 wherein the power matching circuit comprises a resistor and a capacitor connected in parallel.

[Claim 5] The mobile antenna of claim 1 comprising two power matching circuits on opposite sides of the coupler assembly and dipole radiator.

[Claim 6] The mobile antenna of claim 1 further comprising a heat sink in the coupler assembly.

[Claim 7] The mobile antenna of claim 6 wherein the heat sink is a conductive coupler nut extending from the coupler assembly that surrounds and supports the dipole radiator.

[Claim 8] The mobile antenna of claim 7 wherein the dipole radiator is enclosed in a dielectric housing.